

What is claimed is:

1. A material for an aperture grille for use in a color picture tube made of a low carbon steel sheet containing 9 to 30 wt% of Ni.

2. A material for an aperture grille for use in a color picture tube made of a low carbon steel sheet containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co.

3. A method of producing a material for an aperture grille for use in a color picture tube as claimed in claim 1, comprising the steps of cold-rolling a low carbon steel sheet containing 9 to 30 wt% of Ni and annealing same at a temperature of 400 to 500° C.

4. A method of producing a material for an aperture grille for use in a color picture tube as claimed in claim 2, comprising the steps of cold-rolling a low carbon steel sheet containing 9 to 30 wt% of Ni and 0.1 to 5 wt % of Co and annealing same at a temperature of 400 to 500° C.

5. A method of producing a material for an aperture grille for use in a color picture tube as claimed in claim 1, comprising the steps of cold-rolling a low carbon steel sheet containing 9 to 30 wt% of Ni, subjecting same to process-annealing at a temperature of 500 to 800° C and another cold-rolling, and annealing same at a temperature of 400 to 500° C.

6. A method of producing a material for an aperture grille for use in a color picture as claimed in claim 2, comprising the steps of cold-rolling a low carbon steel sheet containing 9 to 30

wt% of Ni and 0.1 to 5 wt% of Co subjecting same to process-annealing at a temperature of 500 to 800°C and another cold-rolling, and annealing same at a temperature of 400 to 500°C.

7. An aperture grille for use in a color picture tube, which is made of a low carbon steel sheet containing 9 to 30 wt% of Ni.

8. An aperture grille for use in a color picture tube, which is made of a low carbon steel sheet containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co.

9. A color picture tube incorporating an aperture grille for use in a color picture tube, which is made of a low carbon steel sheet containing 9 to 30 wt% of Ni.

10. A color picture tube incorporating an aperture grille for use in a color cathode ray tube, which is made of a low carbon steel sheet containing 9 to 30 wt% of Ni and 0.1 to 5 wt% of Co.